AMENDMENTS TO THE CLAIMS

1.   (Currently Amended) A method, comprising:

gathering information relating to a processor;

evaluating ~~processor state~~ the information ~~associated with a~~ relating to the processor; and

managing ~~one or more~~ a first virtual ~~machines~~ machine and a second virtual machine

~~using~~ via the ~~processor state~~ information, the managing of the first and second

virtual machines including extending a predetermined processing time of the first

virtual machine or suspending the predetermined processing time of the first

virtual machine, wherein the suspending of the predetermined processing time

includes switching tasks being performed on the first virtual machine to the

second virtual machine, wherein the predetermined processing time is allocated to

the first virtual machine by a central processing unit to perform the tasks.

2.   (Currently Amended) The method of claim 1, further ~~comprising:~~ comprising monitoring

the processor~~, and~~

~~gathering the processor state information.~~

Claims 3-4   (Cancelled)

5.   (Currently Amended) The method of claim 1, wherein the ~~processor state~~ information

comprises processor state information having ~~at least~~ one ~~of the following:~~ or more of

characteristics of the processor, history of the processor, characteristics of the ~~one or more~~

first and second virtual machines, history of the ~~one or more~~ first and second virtual

machines, ~~event monitoring (EMON) data, and E86MON~~ data and event monitoring data.

6.   (Cancelled)

7.   (Currently Amended) The method of claim 1, wherein the managing of the first and

second virtual machines is performed by a virtual machine manager (VMM) comprising a

state management unit ~~to evaluate the processor state information and manage the one or more virtual machines~~.

Claims 8-16 (Cancelled)

17.   (Currently Amended) A system, comprising:

a storage medium to store information relating to a processor coupled with the storage

medium; and

a processor ~~coupled with the storage medium;~~ having a virtual machine manager (VMM)

~~coupled with the processor,~~ the VMM to

~~monitor the processor and gather processor state information; and~~

~~one or more virtual machines coupled with the VMM, the one or more virtual machines~~

~~managed by the VMM using the processor state information.~~

gather information relating to the processor,

evaluate the information relating to the processor, and

manage a first virtual machine and a second virtual machine via the information,

the managing of the first and second virtual machines including extending

a predetermined processing time of the first virtual machine or suspending

the predetermined processing time of the first virtual machine, wherein the

suspending of the predetermined processing time includes switching tasks

being performed on the first virtual machine to the second virtual machine,

wherein the predetermined processing time is allocated to the first virtual

machine by a central processing unit to perform the tasks.

18.   (Previously Presented) The system of claim 17, wherein the VMM comprises a state

management unit to monitor the processor.

Docket No.: 42P16779   3
Application No.: 10/609,202

19. (Currently Amended) The system of claim 17, wherein the ~~processor state~~ information comprises processor state information having ~~at least one of the following:~~ one or more of characteristics of the processor, history of the processor, characteristics of the ~~one or more~~ first and second virtual machines, history of the ~~one or more~~ first and second virtual machines, ~~event monitoring (EMON) data, and E86MON data~~ and event monitoring data.

20. (Cancelled)

21. (Currently Amended) The system of claim 17, wherein the processor comprises one or more ~~processors having at least one of the following:~~ of microprocessors, hyperthreaded processors, digital signal processors, and microcontrollers.

22. (Cancelled)

23. (Currently Amended) The system of claim 17, wherein the ~~one or more~~ first and second virtual machines comprise guest software, the guest software having ~~at least one of the following:~~ one or more of an operating software and a software application.

24. (Currently Amended) A machine-readable medium ~~having stored thereon data representing sequences of~~ comprising instructions, ~~the sequences of instructions~~ which, when executed ~~by a machine~~, cause ~~the~~ a machine to:

gather information relating to a processor;

evaluate the information relating to the processor; and

manage a first virtual machine and a second virtual machine via the information, the managing of the first and second virtual machines including extending a predetermined processing time of the first virtual machine or suspending the predetermined processing time of the first virtual machine, wherein the suspending of the predetermined processing time includes switching tasks being performed on the first virtual machine to the second virtual machine, wherein the

Docket No.: 42P16779   4
Application No.: 10/609,202

predetermined processing time is allocated to the first virtual machine by a central

processing unit to perform the tasks.

~~monitor the processor; and~~

~~gather the processor state information.~~

25.   (Currently Amended) The machine-readable medium of claim 24, wherein the ~~sequences~~

~~of~~ instructions which, when executed ~~by the machine~~, further cause the machine ~~to:~~to

monitor the processor~~; and~~

~~gather the processor state information.~~

26.   (Cancelled)

27.   (Cancelled)

28.   (Currently Amended) The machine-readable medium of claim 24, wherein the

information comprises processor state information ~~comprises at least one of the~~

~~following:~~ having one or more of characteristics of the processor, history of the processor,

characteristics of the ~~one or more~~ first and second virtual machines, history of the ~~one or~~

~~more~~ first and second virtual machines, ~~event monitoring (EMON) data, and E86MON~~

~~data~~ and event monitoring data.

29.   (Cancelled)

30.   (Currently Amended) The machine-readable medium of claim 24, wherein the managing

~~is~~ of the first and second virtual machines is performed by a virtual machine manager

(VMM) comprising a state management unit~~to evaluate the processor state information~~

~~and manage the one or more virtual machines.~~

Docket No.: 42P16779   5
Application No.: 10/609,202